

SABIC Innovative Plastics LNP THERMOCOMP LC00APXQ PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* THERMOCOMP* LC00APXQ is a compound based on Polyetheretherketone resin containing 50% Carbon Fiber. Added features of this material include: Exceptional Processing, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LC00APXQ-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0013 - 0.0025 cm/cm	0.0013 - 0.0025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.013 cm/cm	0.0060 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	320 MPa	46400 psi	5 mm/min; ISO 527
	328 MPa	47600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	47.4 GPa	6870 ksi	1 mm/min; ISO 527
	49.8 GPa	7220 ksi	5 mm/min; ASTM D638
Flexural Strength	473 MPa	68600 psi	ISO 178
	505 MPa	73200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	40.5 GPa	5870 ksi	1.3 mm/min, 50 mm span; ASTM D790
	40.73 GPa	5907 ksi	2 mm/min; ISO 178
Poissons Ratio	0.45	0.45	ASTM E 132
Shear Modulus	5.187 GPa	752.3 ksi	ASTM C273
Shear Strength	114 MPa	16500 psi	ASTM C273

Izod Impact, Notched Mechanical Properties	0.770 J/cm Metric	1.44 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	7.68 J/cm	14.4 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	2.00 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	1.11 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	20.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	11.1 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	335 Â°C @Thickness 3.20 mm	635 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D257

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